

**HAIR ACTIVITY BY ISOFLAVONE DERIVED FROM SOYBEAN**

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**Abstract of JP2000302678**

**PROBLEM TO BE SOLVED:** To solve a male depilation by keeping hormone balance in the body by administration of female hormone so as to adjust rise in reactivity of male hormone since the cause of male depilation is considered to be lessening of papilla and noncontinuation of the growth period in a hair period but not reduction in cell growth of hair-mother cells.

**SOLUTION:** Isoflavone in a hypocotyl of soybean is considered to be a chemical substance to act as a phytoestrogen due to structural similarity to female hormone (estrogen). Daidzein and genistein are bonded to an estrogen receptor and show an estrogen action (agonist) and an antiestrogen action (antagonist) according to concentration. It is understood that 17 $\beta$  estradiol being a representative estrogen contains hydroxy groups at both ends and a flat ring structure common to isoflavonoid. A proper amount of isoflavone (phytoestrogen) derived from a hypocotyl of soybean structurally similar to the female hormone (estrogen) is orally administered so as to prevent and improve male depilation or white hair.

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